



Publications and the Evolution of Health Informatics

Panelist:

Suzzane Bakken, Columbia University, USA

Marion J. Ball, University of Texas Arlington, USA

Christoph Lehmann, University Texas Southwestern, USA

Heimar Marin, University of Sao Paulo, Brazil



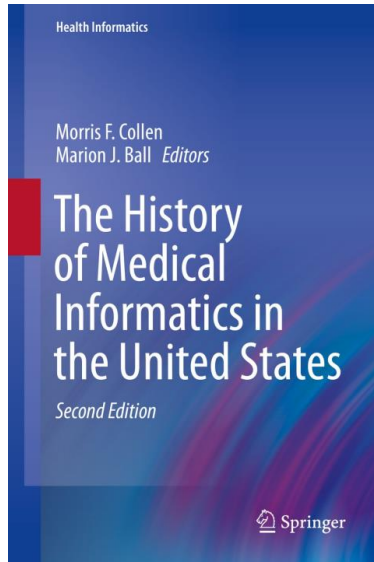


INTRODUCTION

“Publications play a major role in the diffusion and integration of informatics in medicine.”

- Morris F. Collen

Chapter 2, The Creation of a New Discipline, in Morris F. Collen's *History of Medical Informatics in the United States*, 2nd edition, 2015





The Panelists

- Marion J. Ball
 - Founding Co-Editor, Springer Health Informatics Series
- Christoph U. Lehmann
 - Founding Editor-in-Chief, Applied Clinical Informatic Series
- Suzanne Bakken
 - Editor-in-Chief, Journal of the American Medical Informatics Association
- Heimar de Fatima Marin
 - Editor-in-Chief, International Journal of Medical Informatics



This panel will share:

- Two case studies: A book series and a new e-journal
 - Moving from vision to reality
 - Evolving with the discipline
- Two journals with ties to professional associations—another factor in the integration of informatics into medicine
 - Serving their members
 - Advancing the discipline



Marion Ball – Case Study One



The Case Study One

- *The Health Informatics Series: Evolving with a New Discipline*, by Marion J. Ball, Kathryn J. Hannah, Nhora Cortes-Comerer, and Judith V. Douglas, in *International Journal of Medical Informatics* 2023:173:105008.

NIH National Library of Medicine
National Center for Biotechnology Information

PubMed®

Advanced Search

User Guide

Save Email Send to Display options

Editorial > Int J Med Inform. 2023 May;173:105008. doi: 10.1016/j.ijmedinf.2023.105008. Epub 2023 Feb 24.

Editorial: The health informatics series: Evolving with a new discipline

Marion J Ball¹, Kathryn J Hannah, Nhora Cortes-Comerer, Judith V Douglas

Affiliations + expand
PMID: 36868101 DOI: 10.1016/j.ijmedinf.2023.105008
[Free article](#)

Abstract

A brief history of the book series launched by Springer-Verlag in 1988 as *Computers in Healthcare* stands as a case study of its role in the development of informatics in medicine. Renamed *Health Informatics* in 1998, the series grew to include 121 titles as of September 2022, covering topics from dental informatics to ethics, from human factors to mobile health. An analysis of three titles now in their fifth editions reveals the evolution of content in the core disciplines of nursing informatics and health information management. Shifts in topics in the second editions of two landmark titles chart the history of the field and provide a map to the development of the computer-based health record. Metrics on the publisher's website document the reach of the series, available as e-books or chapters. The growth of the series mirrors the evolution of health informatics as a discipline, and the contributions of authors and editors from around the world are evidence of international scope.

FULL TEXT LINKS
[ELSEVIER OPEN ACCESS](#)

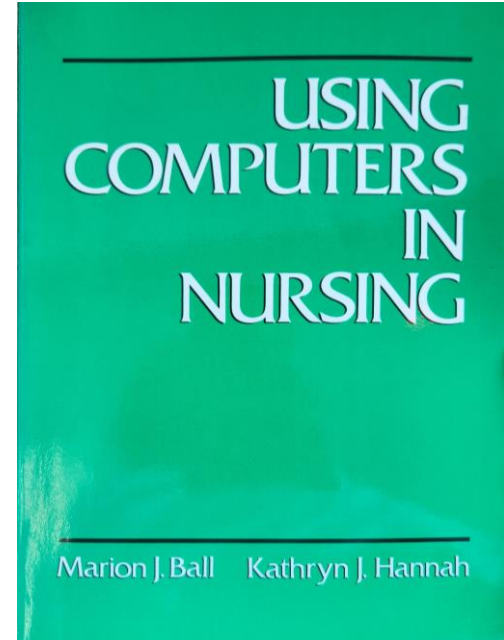
ACTIONS
[Cite](#)
[Collections](#)

SHARE
[Twitter](#) [Facebook](#) [LinkedIn](#)

PAGE NAVIGATION
[Title & authors](#)
[Abstract](#)
[Conflict of interest statement](#)
[Similar articles](#)

Preceding the Springer Series

- Catalyst for the Springer Series: "Using Computer in Nursing" (1984) by Marion J. Ball and Kathryn J. Hannah

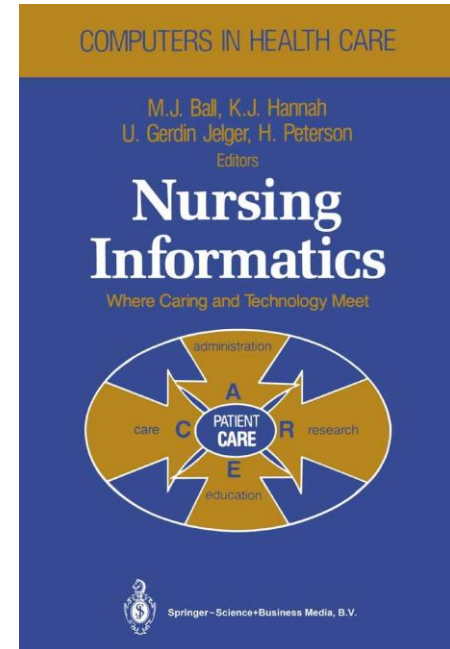




Marion Ball and Kathryn Hannah: *The Health Informatics Series Computers in Health Care*

The Birth of the Springer Series

- *Nursing Informatics: Where Caring and Technology Meet* (1988)





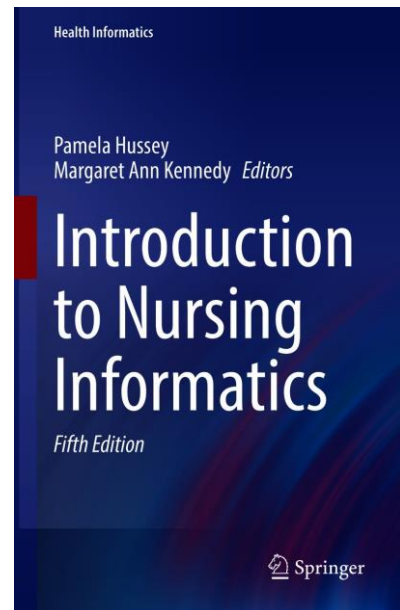
*The Health Informatics Series**

- Growth by the numbers
 - 22 titles added in the 1990s, its first decade
 - 125 by 10 May 2023
- Growth by repeat editions
 - 3 titles in their 5th edition
 - 2 landmark titles in their 2nd edition

*Source: www.springer.com/series/1114

The Health Informatics Series: 5th editions

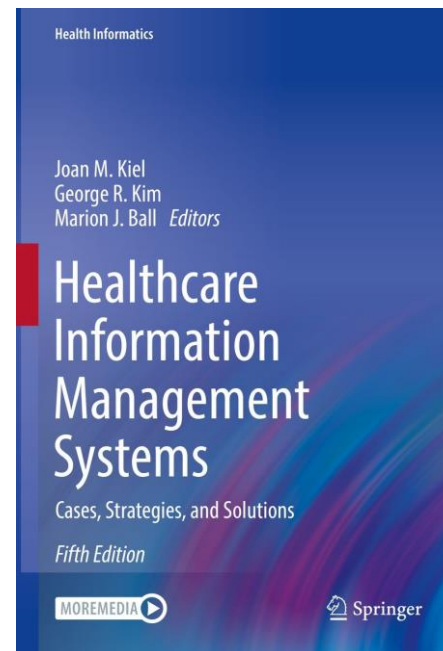
- *Introduction to Nursing Informatics* (2021)
 - P Hussey and MA Kennedy, eds., under succession planning by two editors of the first 4 editions, KJ Hannah and MJ Ball
 - Includes online files/update
 - 28,000 accesses, 14 citations, 27 altmetric





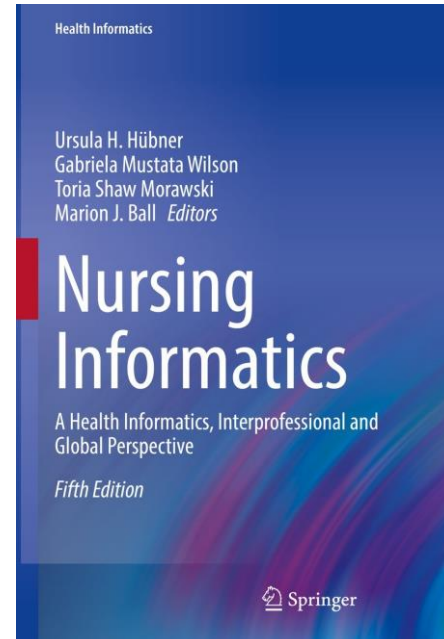
The Health Informatics Series: 5th editions

- *Health Information Management Systems* (2022)
 - JM Kiel, GR Kim and MJ Ball
 - 10,000 accesses, 2 citations, no altmetric data posted



The Health Informatic Series: 5th editions

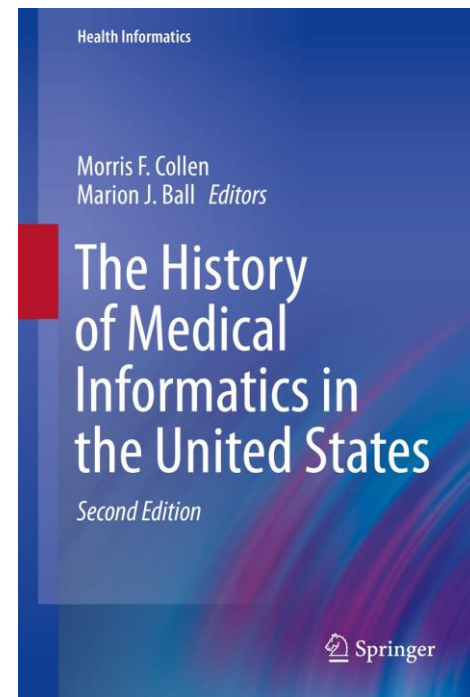
- *Nursing Informatics: A Health Informatics, Interprofessional and Global Perspective* (2022)
 - UH Hubner, GM Wilson, TS Morawski, and MJ Ball, editors
 - 821+ pages
 - More details to follow





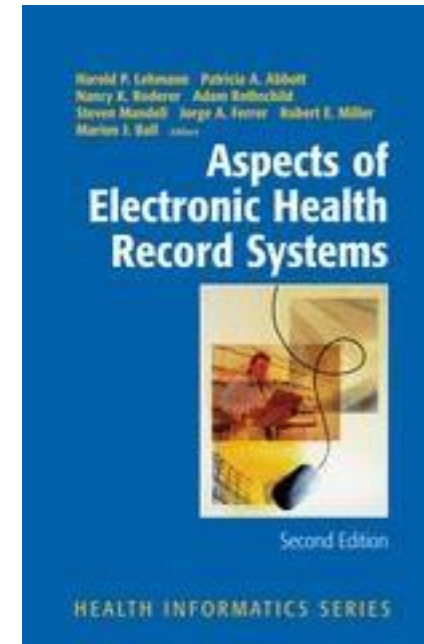
The Series: 2nd editions of two landmark titles

- *The History of Medical Informatics in the United States* (2015)
 - MF Collen and MJ Ball, editors
 - Published after Dr. Collen's death according to his wishes
 - 19 informaticians who edited individual chapters
 - 43,000 accesses, 35 citations, 20 altmetric



The Series: 2nd editions of two landmark titles

- *Aspects of the Electronic Health Record Systems* (2005)
 - HP Lehmann, PA Abbott, NK Roderer et al., eds.
 - Metrics not available on www.springer.com
 - Updating the 1st edition, *Aspects of the Computer-Based Patient Record* (1992), MJ Ball and MF Collen, eds.





Nursing Informatics

- International Focus: The Editors and Authors
 - First Edition: 3 international editors, 1 US-based; launched in 1988 at an international nursing informatics conference in Ireland
 - Fifth Edition: 109 contributing authors from 16 countries
- Evolving Discipline: The Subtitles
 - Where Caring and Technology Meet: 1st, 2nd, and 3rd editions
 - Where Technology and Caring Meet: 4th edition
 - A Health Informatics, Interprofessional and Global Perspective: 5th edition

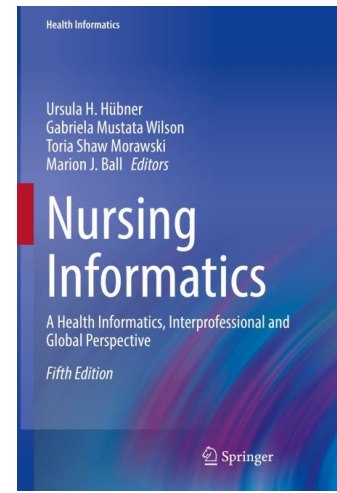
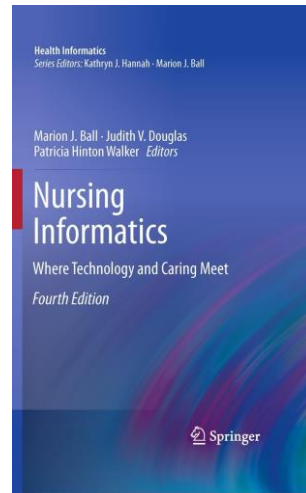
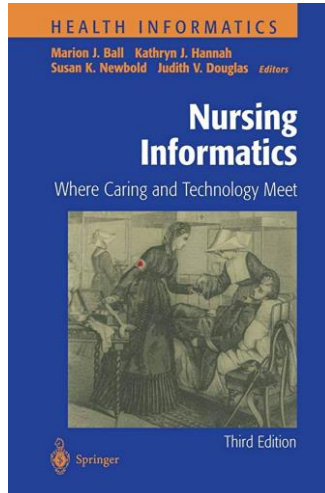
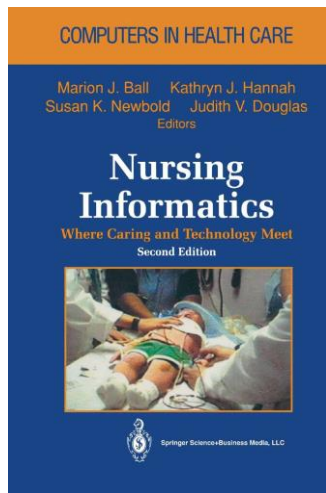
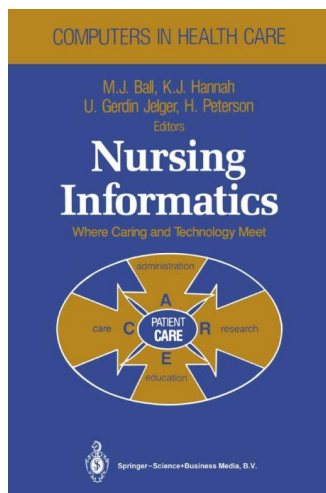


Dissemination: Accesses on www.springer.com/series/1112

- 1st edition (1988): 7718 accesses
- 2nd edition (1995): 6975 accesses
- 3rd edition (2000): No data available
- 4th edition (2011): 87,000 accesses
- 5th edition, published July 26, 2022
 - Number of Accesses: 13,000 as of Sept 30, 2022; 30,000 as of Feb 27, 2023; 37,000 as of Apr 26, 2023; 40,000 as of May 10, 2023



Note the change in name of the series from *Computers in Health Care* (1988) to *Health Informatics* (1998) reflecting the evolution of the discipline





Christoph Lehmann – Case Study Two



The Case Study Two

- *Applied Clinical Informatics Journal: A Brief History*, by Christoph U. Lehmann, Marion J. Ball, Reinhold Haux, Jenna S. Lehmann, in *Applied Clinical Informatics Journal* 2022;13:516-520.

National Library of Medicine
National Center for Biotechnology Information

Log in

PubMed®

Advanced

Search

User Guide

Save Email Send to Display options

Editorial > Appl Clin Inform. 2022 Mar;13(2):516-520. doi: 10.1055/s-0042-1749165.
Epub 2022 May 18.

Applied Clinical Informatics Journal: A Brief History

Christoph U Lehmann^{1 2}, Marion J Ball³, Reinhold Haux⁴, Jenna S Lehmann^{1 2}

Affiliations + expand
PMID: 35584790 PMCID: PMC9117009 (available on 2023-05-18)
DOI: 10.1055/s-0042-1749165

Abstract

In 2009, Schattauer Verlag in Stuttgart, Germany first published the *Applied Clinical Informatics (ACI)* Journal. *ACI* has served since its inception as an official journal of the International Medical Informatics Association. Later, the American Medical Informatics Association and the European Federation for Medical Informatics named *ACI* as an official journal. This manuscript describes the history of the journal from its inception to present day including publication measures, challenges, and successes.

Thieme. All rights reserved.

FULL TEXT LINKS

Full text

ACTIONS

Cite

Collections

SHARE

PAGE NAVIGATION

< Title & authors

Abstract

Christoph Lehmann, *Applied Clinical Informatics Journal*

• Impetus

- Applied clinical informaticians had difficulty finding a dedicated home for their work in established journals.
- Reasons:
 - Not advancing the theory of the field
 - Outside the editorial scope of the journal.
- Many clinical informaticians resorted to publishing in clinical journals or in their informatics societies' proceedings.
- The need for a new applied clinical informatics journal had become apparent.

Health Information Technology for Economic and Clinical Health (HITECH) Act

- \$29 billion financial stimulus provided in the United States
- Resulted in near complete uptake of electronic health records
- Digitized 19.7% of the US economy

Serendipity

- MedInfo 2007 in Brisbane
- “Loitering” in the hallway of the convention center
- Marion Ball invites me to a meeting
- IMIA leadership discussing the need for a new journal

Translational Research in Medical Informatics or from Theory to Practice

A Call for an Applied Informatics Journal

C. U. Lehmann¹, M. M. Altuwaijri², Y. C. Li³, M. J. Ball⁴, R. Haux⁵

¹Pediatrics and Health Sciences Informatics, Johns Hopkins University School of Medicine, Baltimore, MD, USA

²College of Public Health and Health Informatics, King Saud bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia

³Institute of Biomedical Informatics, National Yang-Ming University, Taipei, Taiwan

⁴IBM Research Center for Healthcare Management and Johns Hopkins School of Nursing, Baltimore, MD, USA

⁵Peter L. Reichertz Institute for Medical Informatics, University of Braunschweig – Institute of Technology and Hannover Medical School, Braunschweig, Germany

Editorial



Schattauer

- Prof. Haux opened the door to Schattaeur Verlag
 - Existing relationship with IMIA
 - Methods of Information in Medicine
 - IMIA Yearbook
- Day-long sales pitch
- Deal sealed over dinner
- Chris Lehmann designated Editor-in-Chief
- In 2018, Schattauer was sold to Thieme Publishers



Thieme

Applied Clinical Informatics Journal

- Double blinded review
 - Intended to reduce the advantage for authors from North America and Europe
- Medline indexing started in 2011
- Official IMIA journal from the start
- Official AMIA journal for more than 5 years now
 - Member benefit of AMIA membership
 - Aided by Board Certification of Clinical Informatics in the US
- European Federation for Medical Informatics journal since 2021

Journal Measures for Applied Clinical Informatics Journal 2019-2021

Measurement Description	2021	2020	2019
Impact factor	2.762	2.342	2.147
Total citations	511	415	338
Days to first decision (all manuscripts)	25.7	21.2	23
Days to final decision (average)	53.0	41.0	55.0
Total articles published	126	89	104

Journal Measures for Applied Clinical Informatics Journal 2019-2021

Measurement Description	2021	2020	2019
Acceptance rate	39.9%	32.0%	41.2%
Full text downloads (HTML and PDF)	284,608	200,350	65,056
Mean Altmetric attention score	5.7	6.43	4.8



Some facts

- Of 128 papers published in 2021 in *Applied Clinical Informatics*, 21 (16.4%) were related to the COVID-19 pandemic
- High-lights annually the AMIA Clinical Informatics Conference
- Social Media
 - @ACI_Journal on Twitter
 - <https://www.facebook.com/ACIJournal>
- Student Editorial Board



Most talked about papers in 2021

- Implementation of Artificial Intelligence-Based Clinical Decision Support to Reduce Hospital Readmissions at a Regional Hospital (Altmetric 58).
- Considerations for Designing EHR-Embedded Clinical Decision Support Systems for Antimicrobial Stewardship in Pediatric Emergency Departments (Altmetric 55).
- Reducing Alert Burden in Electronic Health Records: State of the Art Recommendations from Four Health Systems (Altmetric 39).



Sue Bakken – Journal One
Journal of the American Medical Informatics Association
(JAMIA)



JAMIA—why?

William W. Stead, MD 

Journal of the American Medical Informatics Association, Volume 1, Issue 1, January 1994,
Pages 75–76, <https://doi.org/10.1136/jamia.1994.95236138>

- May 8, 1992 - Board of Directors of the American Medical Informatics Association (AMIA) resolved to establish a new journal
- Purpose - to further the growth and development of the field of medical informatics
- Goal - to become the premier vehicle for the archival publication of peer-reviewed papers containing original hypotheses and findings in medical informatics
- If goal is achieved, JAMIA will help to define the field and will serve as a reference for what constitutes quality work in medical informatics.

JAMIA—why?

William W. Stead, MD 

Journal of the American Medical Informatics Association, Volume 1, Issue 1, January 1994,
Pages 75–76, <https://doi.org/10.1136/jamia.1994.95236138>

- Provide forum for identification of career paths, definition of curricula, and consideration of credentialing
- Address needs of individuals who are interested in using informatics in the health care process as well as to those of individuals who are interested in the scientific process of creating new knowledge
- Stimulate thought regarding the problems that make it difficult for people to enter and prosper in the field
- Provide a standard of reference for academic tenure decisions and for recognition by one's peers



JAMIA—why?

William W. Stead, MD 

Journal of the American Medical Informatics Association, Volume 1, Issue 1, January 1994,
Pages 75–76, <https://doi.org/10.1136/jamia.1994.95236138>

- Reach beyond the medical informatics community to educate the public about the 'potential of the field for improving the health care environment and the challenges that must be overcome to achieve that potential
- Serve as a vehicle for technology transfer from the developers of ideas and techniques to the administrators, practitioners, educators, and researchers who need new ways to do their work

JAMIA History

- Editor-in-Chief
 - William Stead, MD (1994-2002)
 - Randolph Miller, MD (2003-2010)
 - Lucila Ohno-Machado MD, PhD (2011-2018)
 - Suzanne Bakken, PhD, RN (2019-2026)
- Issues – 6 to 7-8 in 2013 to 12 in 2018
- Print to online - 2018
- Student Editorial Board - 2004



Volume 1, Issue 1
January 1994

JOURNAL ARTICLE

Terms Used by Nurses to Describe Patient Problems: Can SNOMED III represent nursing concepts in the patient record? [Get access >](#)

Suzanne B. Henry, DNSc, RN ✉, William L. Holzemer, PhD, RN, Cheryl A. Reilly, MS, RN,
Keith E. Campbell, MD

Journal of the American Medical Informatics Association, Volume 1, Issue 1, January 1994,



Volume 26, Issue 1
January 2019

Doing what matters most FREE

Suzanne Bakken

Journal of the American Medical Informatics Association, Volume 26, Issue 1, January
2019, Pages 1–2, <https://doi.org/10.1093/jamia/ocy168>

Published: 26 December 2018

Split View PDF Cite Permissions Share ▼



Top Cited Recent Papers in 2022

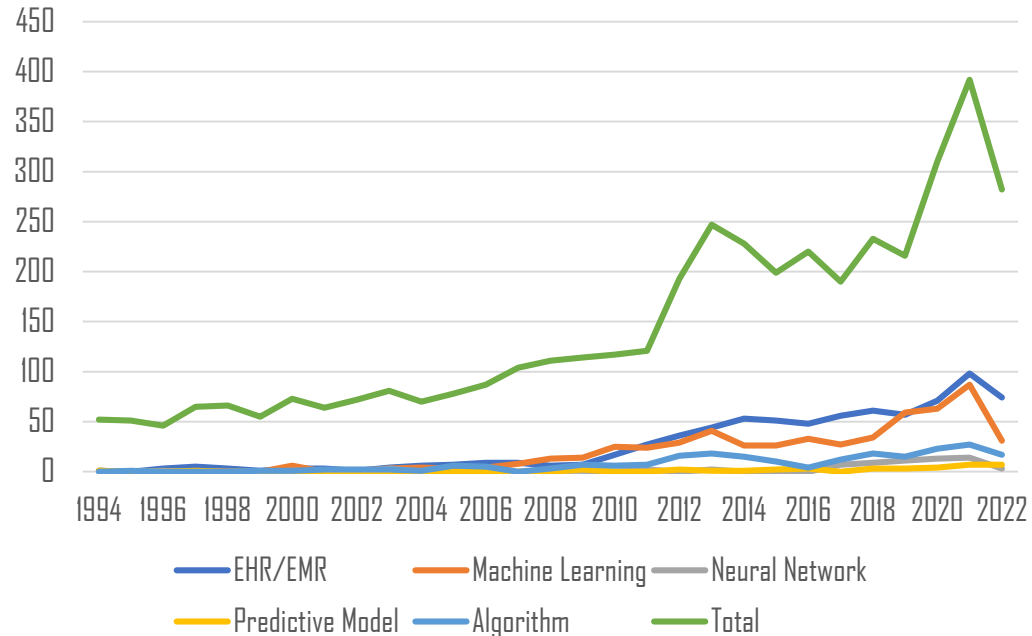
Top Cited Recent Articles

Which articles from issues published in 2020 or later have received the most citations so far?

Title	First Listed Author	Article Details	Total Citations
Telehealth transformation: COVID-19 and the rise of virtual care	Jedrek Wosik	Vol:27, Iss:6, Pub Date:2020-05-17	612
COVID-19 transforms health care through telemedicine: Evidence from the field	Devin M Mann	Vol:27, Iss:7, Pub Date:2020-05-29	549
Rapid response to COVID-19: health informatics support for outbreak management in an academic health system	J Jeffery Reeves	Vol:27, Iss:6, Pub Date:2020-04-27	195
Impact of the digital divide in the age of COVID-19	Anita Ramsetty	Vol:27, Iss:7, Pub Date:2020-04-28	171
Telehealth in response to the COVID-19 pandemic: Implications for rural health disparities	Kelly A Hirko	Vol:27, Iss:11, Pub Date:2020-06-26	101
Rapid implementation of a COVID-19 remote patient monitoring program	Tucker Annis	Vol:27, Iss:8, Pub Date:2020-07-27	98
The National COVID Cohort Collaborative (N3C): Rationale, design, infrastructure, and deployment	Melissa A Haendel	Vol:28, Iss:3, Pub Date:2020-08-17	98
Deep learning in clinical natural language processing: a methodical review	Stephen Wu	Vol:27, Iss:3, Pub Date:2019-12-03	90
Telemedicine and healthcare disparities: a cohort study in a large healthcare system in New York City during COVID-19	Rumi Chunara	Vol:28, Iss:1, Pub Date:2020-08-31	86
Rapid design and implementation of an integrated patient self-triage and self-scheduling tool for COVID-19	Timothy J Judson	Vol:27, Iss:6, Pub Date:2020-05-13	78

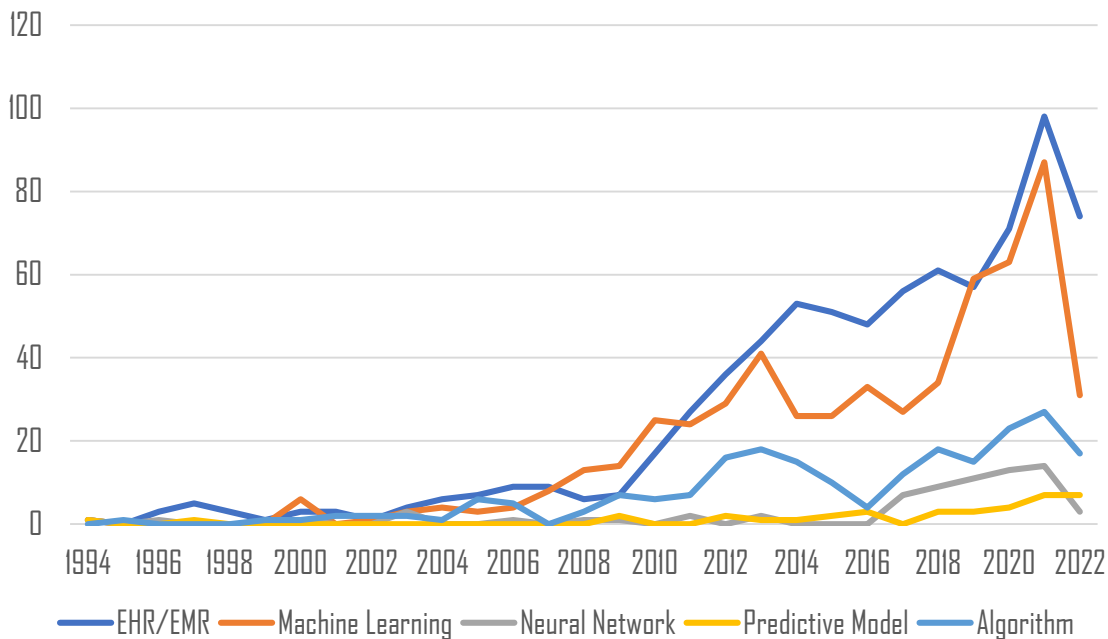


Papers with Data Science Terms vs. Total Papers





Frequency of Papers with Data Science Terms





Focus Issues 2-4 per Year

- Health Equity
- Sex and Gender
- Climate Change
- Global Health Informatics
- Clinician Documentation Burden
- Natural Language Processing for Social Determinants of Health
- Lay Health Visualization (forthcoming)
- Prevention of Firearm Injury (Call for Papers)

Journal Measures for JAMIA 2020-2022

Measurement Description	2022	2021	2020
Impact factor	TBA	7.942	4.497
Total citations	TBA	1763	1579
Days to first/final decision	19/34	17.6/27.1	17.2/31.2
Downloads	1,005,528	1,502,911	1,399,813
Acceptance rate	19	18.5	20.4
Total articles published	265	291	285



Heimar – Journal Two

International Journal of Medical Informatics (IJMI)



Origins of scholarly publishing

1439

Gutenberg and
moveable type



1580

Founding of the
House of Elzevir



March 6, 1665

Philosophical
Transactions
of the Royal
Society

First true
scholarly journal



Henry
Oldenburg
(1618- 1677)

Founding Editor
and Commercial
Publisher of the
first scientific
journal




Heimar de Fatima Marin, *International Journal of Medical Informatics*



- 1970: International Journal of Bio-Medical Computing
- In 1997, the *International Journal of Bio-Medical Computing* becomes the *International Journal of Medical Informatics*, *International* [A new name, a new scope – ScienceDirect](#): focus on the application of information technology that addresses issues of medical international importance in health care.
- Editors Emeritus: Charles Safran and Jan Talmon
- Journal published by Elsevier > [International Journal of Medical Informatics | ScienceDirect.com by Elsevier](#), part of a Medical Informatics portfolio with 9 other titles (pool of editors and potential synergies)
- Official journal of the [European Federation for Medical Informatics \(EFMI\)](#) and [IMIA](#)

Aims and Scope, *International Journal of Medical Informatics*

- *International Journal of Medical Informatics* provides an international medium for dissemination of original results and interpretative reviews concerning the field of medical informatics. The Journal emphasizes the evaluation of systems in healthcare settings.
- An editorial team composed by 8 editors from 5 different countries in the Americas, Europe, and the Pacific.
 - Dr. Federico Cabitza
 - Professor Andrew Georgiou
 - Professor Kathleen Gray
 - Dr Maxim Topaz
 - Dr Patricia Dykes
 - Dr. Gwendolyn Mayer
 - Dr Bastien Rance
 - Dr. Li Zhou
- Social media: @ijmedin 





Gender diversity of editors



- 63% woman
- 38% man
- 0% non-binary or gender diverse
- 0% prefer not to disclose

Data represents responses from 80.00% of 10 editors

46 editors and editorial board members in 14 countries/regions

United States of America (17)
Australia (5)
Italy (4)

Brazil (3), Germany (3), United Kingdom (3), Canada (2), France (2),
Sweden (2), Argentina, Austria, China, Hong Kong, Spain

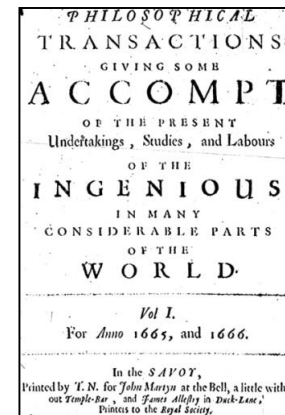


ELSEVIER



The Peer Review – a central practice in academic publishing

- Peer review consists of the evaluation of articles by experts in the field
- It was first used in 1665, by the Royal Society in London
- Peer review places the reviewer, with the author, at the heart of scientific publishing
- Reviewers make the editorial process work by examining and commenting on manuscripts
- Without peer review there is no control in scientific communication
- Reviewers are the backbone of the whole process



Elsevier Publishing Campus



Rejection without external review

- The Editor-in-Chief evaluates submissions and determines whether they go into the external review process or are rejected
- English language inadequate
- Prior publication of the data
- Multiple simultaneous submissions of the same data

The question remains: why is it so hard to follow instructions for authors?



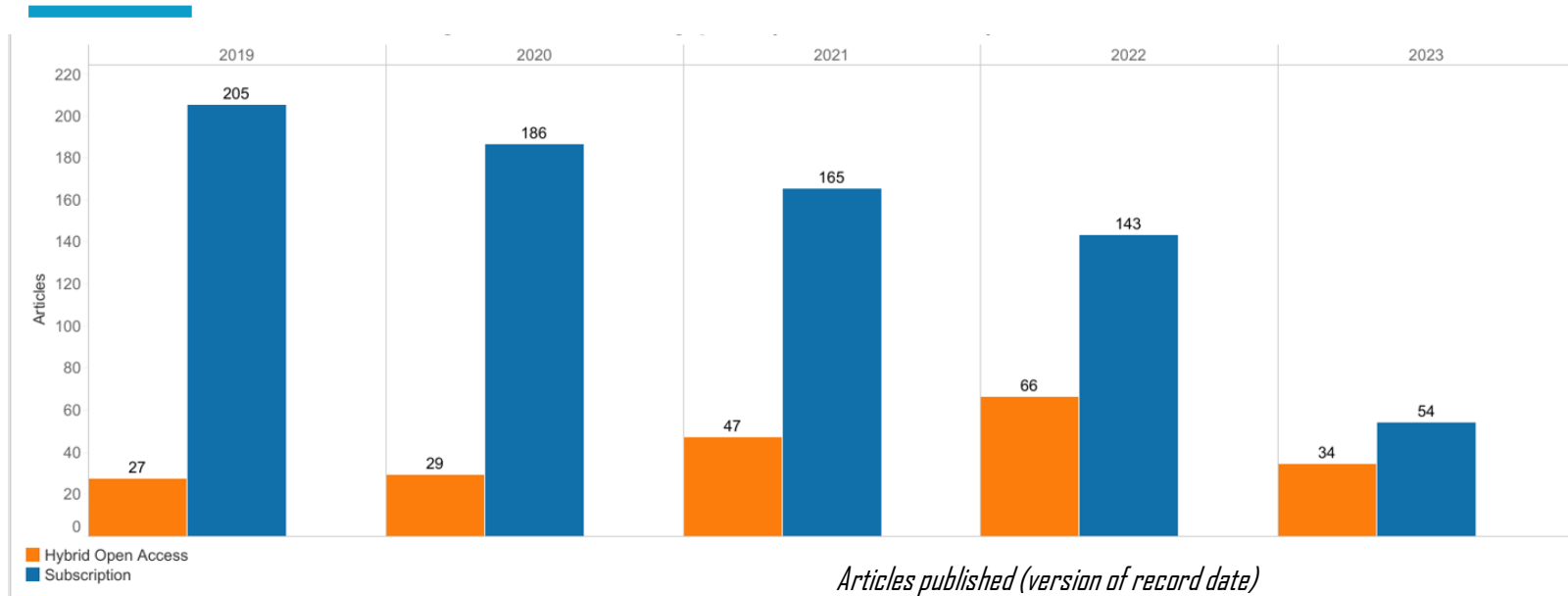
Bibliometrics, *International Journal of Medical Informatics*

Citescore (Scopus)	2017	2018	2019	2020	2021	2022 YTD
	5.4	5.3	5.8	7.1	8.0	9.5
Category	Rank		Total Journals		Quartile	
Health Informatics	17		109		Q1	

Impact Factor (Clarivate)		2017	2018	2019	2020	2021
		2.957	2.731	3.025	4.046	4.730
Index	Category	Rank		Total Journals	Quartile	
SCIE	COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE	52		163	Q2	
SCIE	HEALTH CARE SCIENCES & SERVICES - SCIE	23		109	Q1	
SCIE	MEDICAL INFORMATICS - SCIE	13		31	Q2	



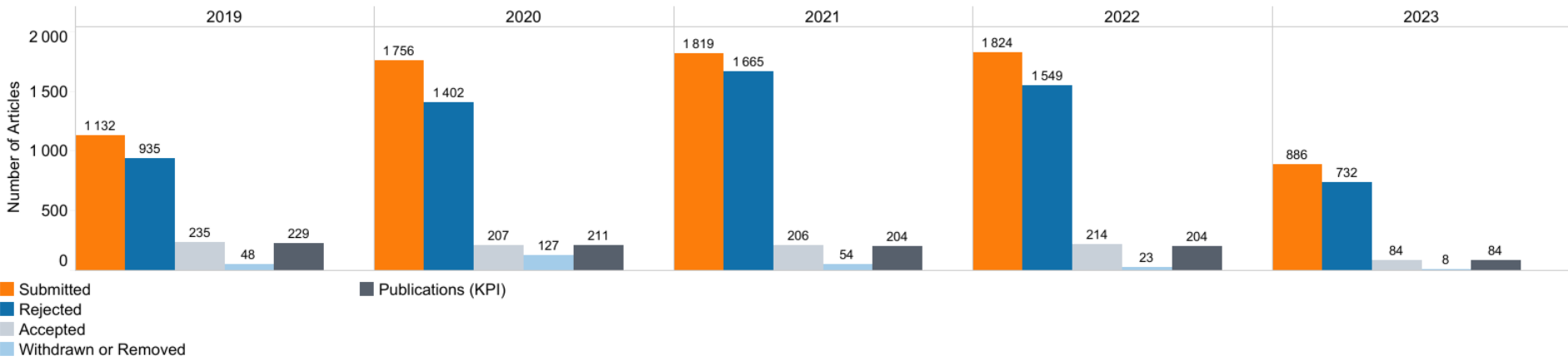
Growth of Open Access, *International Journal of Medical Informatics*



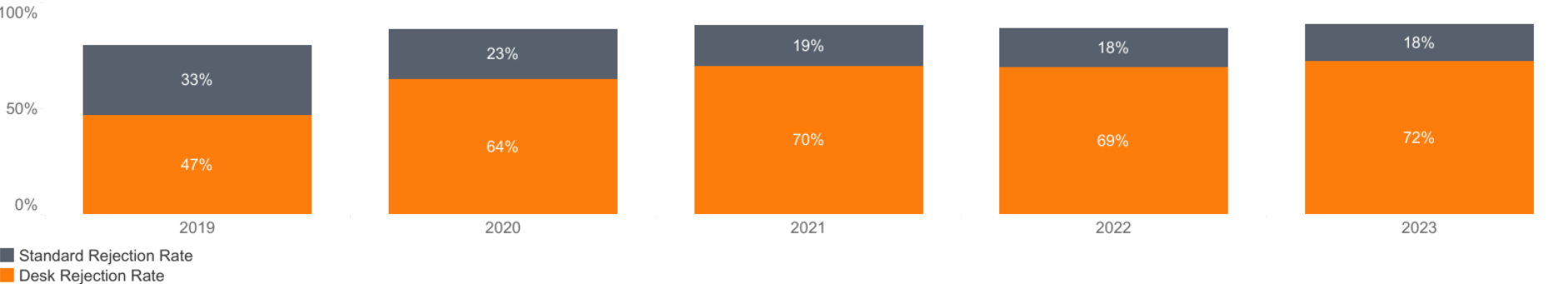
Articles published (version of record date)

Source: Scopus

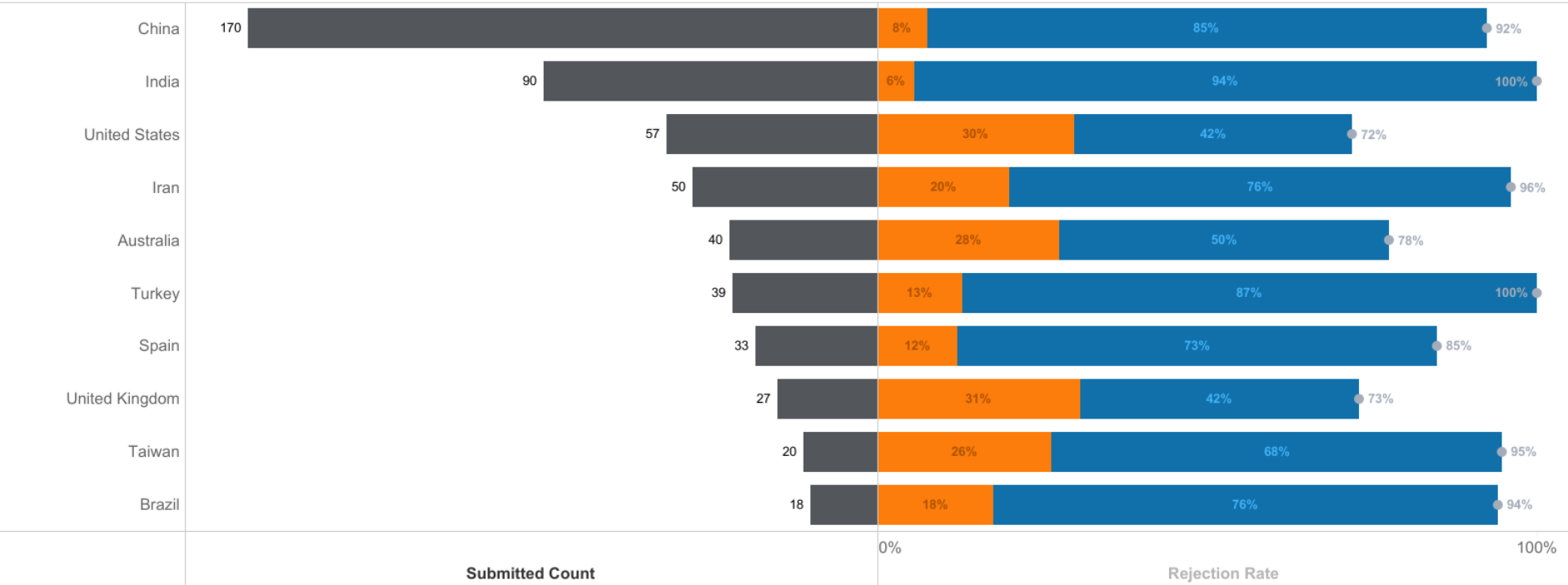
Submissions, Editorial Outcomes and Published Counts



Rejection Rate



Top 10 Countries & Regions by Submissions, with Rejection Rates (2023)



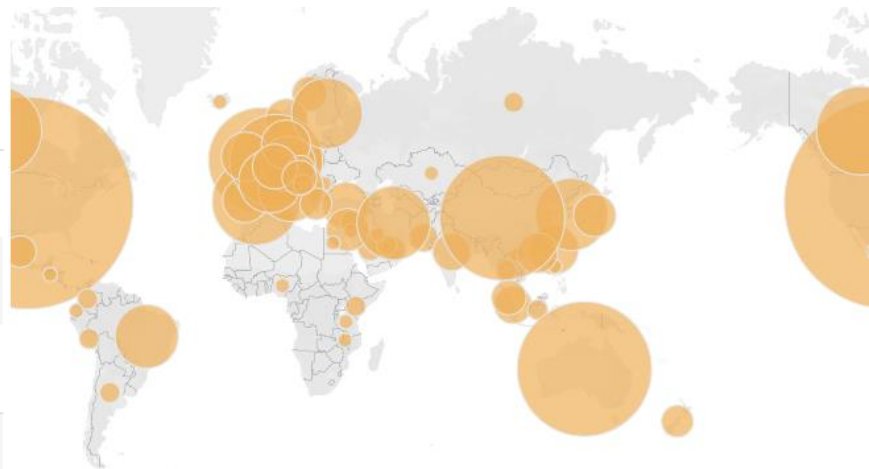
- Desk Rejection Rate
- Standard Rejection Rate
- Rejection Rate (Total)
- Submitted Count by Editorial Outcome Date



Published articles and speed, *International Journal of Medical Informatics*

Acceptance rate of 10% in 2023

Hierar.. [‡]	Publication VoR Date			
	2019	2020	2021	2022
De Novo Article	217	196	188	188
Special Issue Article	10	9	12	12
Transferred Article	2	6	4	4
Total général	229	211	204	204



Editorial outcome

Median time to 1st decision
 Median time to final decision
 Median time to publication online

Days

4
 68
 136



Top ScienceDirect (SD) Downloaded Articles in 2023, Published in 2023

Article Title	Corresponding Author	Publication Date	Article Type	Access Type	Is Special Content	SD Usage	Lifetime SD Usage	Lifetime Scopus Citations	Social Media Count
Healthcare professionals' digital health competence and its core factors; development and psychometric testing of two instruments	Jarva, Erika	21/01/2023	Full length article	Hybrid Open Access	N	1236	1236	0	7
Human factors and safety analysis methods used in the design and redesign of electronic medication management systems: A systematic review	Awad, Selvana	19/02/2023	Review article	Hybrid Open Access	N	1163	1163	0	6
Self-management in heart failure using mHealth: A content validation	Bas-Sarmiento, Pilar	11/01/2023	Full length article	Hybrid Open Access	N	974	974	0	84
Generalizable Machine Learning for Stress Monitoring from Wearable Devices: A Systematic Literature Review	Rahimi Azghadi, Mostafa	07/03/2023	Review article	Hybrid Open Access	N	900	900	0	10
Development and national scale implementation of an open-source electronic laboratory information system (OpenELIS) in Côte d'Ivoire: Sustainability lessons from the first 13 years	Perrone, Lucy A.	04/01/2023	Full length article	Hybrid Open Access	N	830	911	0	
Putting undergraduate medical students in AI-CDSS designers' shoes: an innovative teaching method to develop digital health critical thinking	TSOPRA, Rosy	19/01/2023	Full length article	Hybrid Open Access	Y	827	829	0	2
AccNet24: A deep learning framework for classifying 24-hour activity behaviours from wrist-worn accelerometer data under free-living environments	Farrahi, Vahid	30/01/2023	Full length article	Hybrid Open Access	N	827	827	0	



Top ScienceDirect (SD) Downloaded Articles in 2023, Published All Time

Article Title	Corresponding Author	Publication Date	Article Type	Access Type	Is Special Content	SD Usage	Lifetime SD Usage	Lifetime Scopus Citations	Social Media Count
Blockchain in healthcare and health sciences – a scoping review	Hasselgren, Anton	19/12/2019	Review article	Hybrid Open Access	N	3563	51 595	224	49
REVISITING HEALTH INFORMATION TECHNOLOGY ETHICAL, LEGAL, and SOCIAL ISSUES and EVALUATION: TELEHEALTH/TELEMEDICINE and COVID-19	Kaplan, Bonnie	03/11/2020	Review article	Subscription	N	3470	27 865	84	3
The Benefits and Threats of Blockchain Technology in Healthcare: A Scoping Review	Abd-alrazaq, Alaa Ali	19/08/2020	Review article	Hybrid Open Access	N	2903	30 301	113	9
Use of standardized terminologies in clinical practice: a scoping review	Fennelly, Orna	10/03/2021	Review article	Hybrid Open Access	N	2169	14 309	9	47
Successfully implementing a national electronic health record: a rapid umbrella review	Fennelly, Orna	02/10/2020	Review article	Hybrid Open Access	N	2148	20 563	34	24
Factors influencing acceptance of technology for aging in place: a systematic review	Peek, Sebastiaan Theodorus Michaël	28/02/2014	Review article	Hybrid Open Access	N	1816	69 037	633	25
Impact of Trust and Privacy Concerns on Technology Acceptance in Healthcare: An Indian Perspective	Goswami, Mohit	25/06/2020	Full length article	Subscription	N	1416	9 246	75	
Healthcare professionals' digital health competence and its core factors; development and psychometric testing of two instruments	Jarva, Erika	21/01/2023	Full length article	Hybrid Open Access	N	1236	1 236	0	7
Artificial intelligence and its impact on the domains of Universal Health Coverage, Health Emergencies and Health Promotion: An overview of systematic reviews	Novillo-Ortiz, David	20/08/2022	Review article	Hybrid Open Access	N	1187	4 334	1	46
The Role of Blockchain Technology in Telehealth and Telemedicine	Yaqoob, Ibrar	01/02/2021	Review article	Subscription	N	1168	11 004	63	

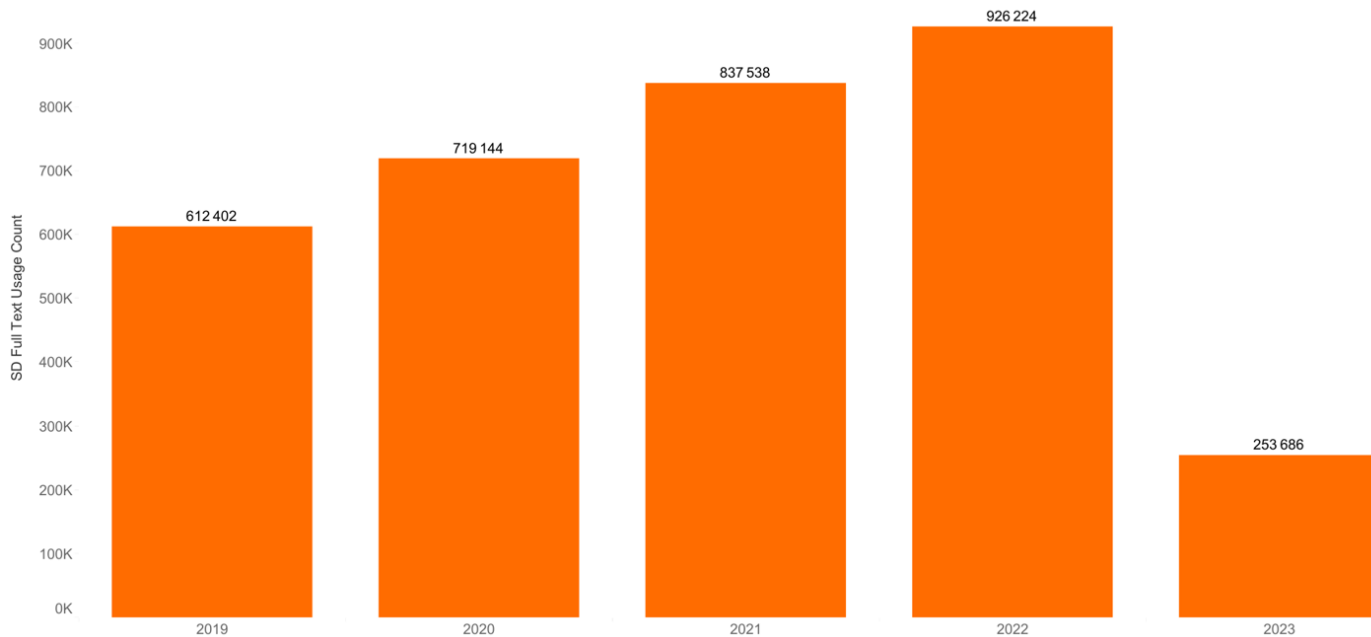


Social media count, *International Journal of Medical Informatics*

Article Title	Correspondent Author	Publication Date	Article Type	Access Type	
Effectiveness of a clinical knowledge support system for reducing diagnostic errors in outpatient care in Japan: A retrospective study	Shimizu, Taro	28/10/2017	Full length article	Subscription	420
An overview of the features of chatbots in mental health: A scoping review	Househ, Mowafa	14/10/2019	Review article	Subscription	331
Determinants of access to eHealth services in regional Australia	Alam, Khorshed	10/09/2019	Full length article	Subscription	312
Role of patient descriptors in predicting antimicrobial resistance in urinary tract infections using a decision tree approach: a retrospective cohort study	Tandan, Meera	06/05/2019	Full length article	Subscription	304
Monitoring data quality for telehealth systems in the presence of missing data	Zwetsloot, Inez Maria	10/04/2019	Full length article	Subscription	238
Governing Health Data Across Changing Contexts: A Focus Group Study of Citizen's Views in England, Iceland, and Sweden	Shah, N.	28/10/2021	Review article	Subscription	171
Classification of glomerular pathological findings using deep learning and nephrologist-AI collective intelligence approach	Okuno, Yasushi	15/07/2020	Full length article	Subscription	166
Predicting the Hotspots of Age-Adjusted Mortality Rates of Lower Respiratory Infection across the Continental United States: Integration of GIS, Spatial Statistics and Machine Learning Algorithms	Mollalo, Abolfazl	29/08/2020	Full length article	Subscription	166
The other side of the coin: harm due to the non-use of health-related data	Jones, Kerina helen	28/09/2016	Full length article	Hybrid Open Access	165
Attitudes of Patients towards Digital Information Retrieval by their Physician at Point of Care in an Ambulatory Setting	Jumana, Antoun	19/08/2019	Full length article	Subscription	130



Full text usage, *International Journal of Medical Informatics*



Source: Science Direct



— **THANK YOU!**
Ready for discussion.



Suzanne Bakken, *Journal of the American Medical Informatics Association*



Heimar Marin, *International Journal of Medical Informatics*



Panelists and Attendees: Opportunities and Perspectives

- Review process
- E-publishing
- Open access
- Metrics
- Queries



Take Aways
